

For the Small and Medium-Sized Business



The ORiNOCO AP-500 Access Point, is a cost-effective, full-featured wireless bridge that extends the range of wired Ethernet networks to provide wireless LAN flexibility and network expansion that delivers increased mobility for your small business. Multiple, simultaneous online sessions support up to 50 users. This, and the single integrated radio, give you the ability to share both files and peripherals from anywhere within your business. Easy to install, the AP-500 gives you the convenience to work anytime, anywhere and anyway you want.

ORiNOCO™ AP-500 Access Point

Broadband Wireless Networking for the Small and Medium-Sized Business

The right technology for the right solution

Designed to support wireless connectivity for up to 50 users per cell, the AP-500 single integrated Wi-Fi compliant radio significantly lowers network infrastructure and management costs. Supported by a complete family of wireless infrastructure and client products, the AP-500 brings a new dimension of ease and simplicity to wireless Ethernet expandability. Due to superior radio receiver sensitivity (ears) and resilience to microwave interference, ORiNOCO has proven to be the best 802.11b radio in the industry providing unbeatable performance results in range and throughput.

Lower your network management cost

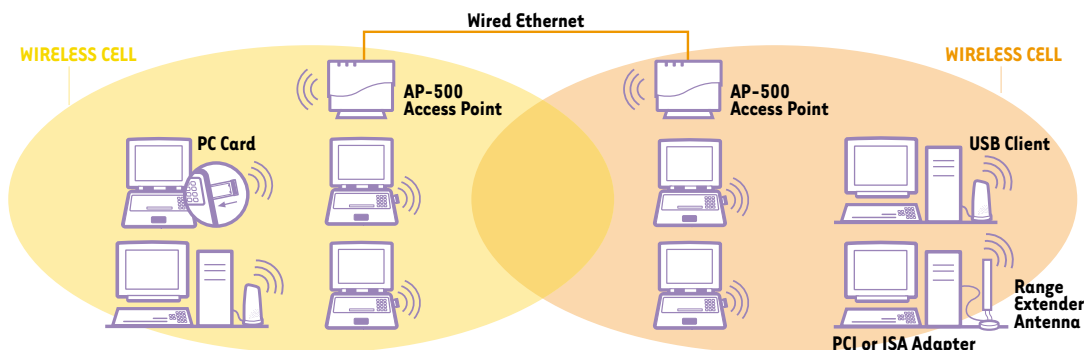
The Windows based SNMP compliant ORiNOCO Access Point (AP) Manager makes it easy to configure your system as well as centrally control your network.

The AP-500 Access Point is part of the complete ORiNOCO product family of infrastructure and client products – all you need to get a wireless network up and running and have reliable shared Internet access throughout your business. Put together the configuration that is right for your network, or try our Wireless LAN

Kit for the Small Business, complete with an ORiNOCO PC Card for laptops, a USB Client for desktops and a Range Extender Antenna for additional coverage.

AP-500 FEATURES

- High performance 11 Mbit/s data rate
- Wide coverage range of up to 1,750ft/550m
- Industry-leading radio design
- Rich set of wireless monitoring features and tools for easy configuration and troubleshooting
- IEEE 802.11b (Wi-Fi) certified
- Single integrated Wi-Fi compliant radio, with embedded PC Card
- High-level security with full 128-bit RC4 data encryption and access control table based authentication
- Enhanced roaming across disparate locations and infrastructures
- Convenient small footprint, table and wall mount and lock for public access installations
- Connector for external antenna to improve coverage or allow installation in a wiring closet



orinoco™

About Agere Systems

The Wireless Communications and

Networking Division (WCND) of Agere

Systems, formerly known as the

microelectronics division of Lucent

Technologies, is a global leader in wireless

local area network (WLAN) technology.

It designs and sells ORiNOCO wireless LAN

products and solutions through a network

of leading OEM customers. Agere Systems

has also established WLAN sales channels

to service providers, enterprise customers

and end-users through several e-commerce

sites and a vast array of value-added

resellers. The ORiNOCO line of products

encompasses a full range of indoor and

outdoor WLAN products, as well as

enhanced security products for public areas

and security-conscious enterprises.



**The Standard For
Wireless Fidelity**

Wi-Fi is a trademark of the Wireless Ethernet
Compatibility Alliance, Inc.

Windows and Windows Me are registered
trademarks of Microsoft Corporation.

More information on ORiNOCO products:

www.orinocowireless.com

agere systems

ORiNOCO AP-500 Access Point Specifications

ADDITIONAL FEATURES

- Integrated 11 Mbps radio
- Supports power over the Ethernet
- 128 bit key security using RC4 encryption
- 10 Mbps Ethernet
- Multi-channel support
- Spanning Tree Algorithm
- IEEE 802.1D Transparent Bridging
- Selective protocol filtering
- Access Control Table and RADIUS Authentication
- DHCP and BOOTP
- Roaming support

INTERFACE

Ethernet 802.3
10 Base-T (RJ-45 connector)

RADIO CHARACTERISTICS

Frequency Channels	2400 - 2483.5 MHz
Modulation Technique	Direct Sequence Spread Spectrum (CCK, DQPSK, DBPSK)
Spreading	11 - chip Barker Sequence
Media Access Protocol	CSMA/CA with ACK
Bit Error Rate (BER)	Better than 10^{-5}
Nominal Output Power	15 dBm

RANGE (METERS/FT)	11 MBIT/S	5.5 MBIT/S	2 MBIT/S	1 MBIT/S
Open	160m (525 ft)	270m (885 ft)	400m (1300 ft)	550m (1750 ft)
Semi-open	50m (165 ft)	70m (230 ft)	90m (300 ft)	115m (375 ft)
Closed	25m (80ft)	35m (115 ft)	40m (130 ft)	50m (165 ft)
Receiver Sensitivity dBm	-82	-87	-91	-94
Delay Spread (at FER of <1%)	65ns	225ns	400ns	500ns

PHYSICAL SPECIFICATIONS

Dimensions	70mm x 175mm x 145mm (includes table mount bracket) 45mm x 175mm x 130mm (includes wall mount bracket)
Weight	0.50 kg

ENVIRONMENTAL SPECIFICATIONS

	Temperature	Humidity
Storage	-20°C to 75°C	95% (non condensing)

POWER SUPPLY

Types	Wall plug-in unit: Auto sensing Ready for Active Ethernet (Power over Ethernet)
Voltage	100/240 VAC 47-63 Hz, 9V/1.1 A

LEDs

3 LEDs:	Power Ethernet LAN Activity ORiNOCO Activity
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OPERATING SYSTEMS

Windows 95/98/98SE, 2000, Millennium Edition

MTBF

150,000 hours (without wireless card) 75,000 (with wireless card) based on workload, of 8760 hours/year (continuous operation), within operating conditions

WARRANTY

1 year (on parts and labor)

PACKAGE CONTENTS

- AP-500 unit
- Power adapter
- Table mount bracket
- Wall mount bracket
- Getting Started Guide
- CD-ROM

RELATED PRODUCTS

Range Extender Antenna (2.5 dBi), ORiNOCO PC Card, ORiNOCO USB Client, ORiNOCO Active Ethernet